COMP2147 Systems Analyst, Design, and Testing

Group Project Sprint 1

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TimeON – software by IMX

Who is the customer?

Lyle Lyon College is a post-secondary institution servicing more than 25,000 students. Located along the Toronto waterfront Lyle Lyon College’s Queen Quay campus services the core body of it’s students. Home to it’s technology, arts, engineering, and trades departments this modern campus powers the future of Ontario’s college students. Empowering the student body to achieve their greatest abilities is the goal of Lyle Lyon College, and as such giving to the students rewards them with time and creativity.

Lyle Lyon College holds expectations for it’s student body. As part of their program mandate the college expects outside learning and self-teaching to be an essential part of their attending student lifestyle. This is emphasised by a faculty and administration focus on student support and awards. Numerous awards are available for students who go above and beyond normal expectations. For example, there are contests for technology students to create software that incorporates self-taught concepts and languages that are not given in a program. In fashion it may be creating new clothing for the college shop. The model student is someone who thinks creatively and intelligently.

As time management is an essential part of student life the administration of Lyle Lyon College understands that giving the right tools to students see them improve. Freedom to set-up the path to success is critical and combined with the freedom of time allows for greater use of time management. As such, the college has hired IMX, a Toronto based software company started by graduates of the college, to design a new course schedule system to meet the mandates of Lyle Lyon College’s mandate and that allows for the growth of the attending students.

Who is IMX?

IMX is a start-up founded by four graduates of Lyle Lyon College in 2017. IMX was created. The idea for a student focused company was created during their final year owing to their experiences at the college. The founders wish is to enhance the college’s organization and improve the public perception of the college.

What is TimeON?

TimeON is a web application software to replace the timetable software currently at Lyle Lyon College. TimeON aims to be a overhaul of the current timetable system available to students with a primary focuses on flexibility between Students and the program coordinators. It will allow for students to construct their own timetables with classes individually chosen based on time, availability, and confliction-free similar to university timetable selection.

Their will be the ability for students to review all classes that are available to them. This review will include the outlines, times, professors, lab hours, and materials. Allowing for pre-semester preparation is one way of meeting the college mandate. When reviewing the course in the TimeON software there should be links to all information and materials relevant to the course, including professor contact information, expected office hours, and hours of each lab and lecture.

The system will work on a per-class availability. Only so many students will be available to register per lab and lecture. Once a class is full any student unable to choose an individual lab or lecture will see that it is full. With courses such as computer programming, labs and lectures will no longer be joined together by section, but rather by individual choice.

Personas

**Mandy Flores**

Forty-eight-year-old Mandy is a strong independent single woman. She works for George Brown College as a system administrator. She loves to bake cookies and brings some to work at least once every week. She has two dogs, Carl and Jason, whom she can’t live without. She likes needle work and is a phenomenal knitter. She knits sweaters all through the summer so she can give her hand made sweaters to her grand children. Every once in a while she works too quickly and makes an extra sweater or two and will donate those. Every morning she goes for a walk along the lake if the weather permits. She is also an avid Bingo player. Every Tuesday is Bingo night for her. She goes out with her friends and they get very excited and amped to play Bingo. She prefers an easy going life and is very happy with the one she has.

**Cnalb Neb (C is silent)**

Thirty-Five-year-old Cnalb is a Professor at George Brown College. One of the youngest professors at the college. He is very good at his job and often gets praises from his students and co-workers about how good of a prof he is. On weekends he loves to hang out with his friends and play some basketball. He jokes that he is “a very boring guy”. He is a very good cook and tries to learn and perfect a dish every month. Overtime he has become quite the chef and his colleagues usually pester his to bring in some amazing food. He was offered a job at the cafeteria due to his culinary prowess but his heart belongs to programming and loves to teach his students. He goes seminars about technologies every Thursday and shares with his friends and colleagues what he learnt, he finds it very interesting. Cnalb is very passionate about his work and is happy to be in the position he is now, but aspires to do much more and leave an impact in the technological society.

**Elrebah Nayr**

Elrebah is a twenty-seven-year-old who is a student at George Brown. He initially went to another college for radio broadcasting and got a job but did not like how static the job was and so came to George Brown for computer programming. He has quite an interest in the world of programming and is extremely eager to learn. He taught himself python using online resources and is currently working a text based game. He feels like he has hit a wall in his code but he hopes that he will be able to solve the problems as he attends the college. On the weekends he likes to go to parties and enjoys himself. When the weekends are quite he either works on his game with a couple of drinks, or unwinds while watching Netflix. Elrebah is a proactive person and an avid learner with a bright future.

User stories

1. As a student I want to view classes.
2. As a student I want to be able to join classes.
3. As a student I want to be able to drop classes.
4. As an administrator I want to be able to add new courses.
5. As an administrator I want to be able to delete courses.
6. As a staff member I would like to see courses offered in my department.
7. As a student I would like to look at my currently available classes.
8. As a staff member I would like to print out reports of statistics in my classes (marks, Students names).
9. As a student I would like to be able to move my course schedule around.
10. As a staff member I would like to edit info on my classes offered (number of seats, description).
11. As an administrator I want to edit user’s classes per request.
12. As a student I want to be able to sign in to see my grades.
13. As a student I want to be able to view past grades.
14. As a student I would like to see my fees.
15. As a student I would like to see my past payments.

Product Backlog

|  |  |  |  |
| --- | --- | --- | --- |
| **Priority** | **Actor** | **Story** | **Story ID** |
|  |  |  |  |
| 1 | Administrator | As an administrator I want to be able to add new courses | 4 |
| 2 | Administrator | As an administrator I want to be able to delete courses | 5 |
| 3 | Staff Member | As a staff member I would like to see courses offered in my department | 6 |
| 4 | Staff Member | As a staff member I would like to edit info on my classes offered | 10 |
| 5 | Student | As a student I would like to see my fees | 14 |
| 6 | Student | As a student I want to view classes | 1 |
| 7 | Student | As a student I would like to look at my currently available classes | 7 |
| 8 | Student | As a student I want to be able to join classes | 2 |
| 9 | Student | As a student I want to be able to drop classes | 3 |
| 10 | Student | As a student I would like to be able to move my course schedule around | 9 |
| 11 | Administrator | As an administrator I want to edit user’s classes per request | 11 |
| 12 | Staff Member | As a staff member I would like to print out reports of statistics in my classes | 8 |
| 13 | Student | As a student I want to be able to sign in to see my grades | 12 |
| 14 | Student | As a student I would like to see my past payments | 15 |
| 15 | Student | As a student I would like to view past grades | 13 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Actor | Story ID | Story | Priority | Subtask | Length |
|  |  |  |  |  |  |
| Administrator | 4 | add new courses | 1 | Determine data infrastructure for classes | 4 |
|  |  |  | 2 | Determine data infrastructure for users | 3 |
|  |  |  | 3 | Develop addition function to insert to database | 6 |
|  |  |  | 4 | Develop interface for addition function | 4 |
| Administrator | 5 | delete courses | 5 | Develop deletion function for database | 4 |
|  |  |  | 6 | Develop interface for deletion function | 4 |
|  |  |  | 7 | Develop strict confirmation to ensure intentional deletion | 2 |

Sprint Backlog